

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A spinal implant system, comprising:

a vertebral prosthesis having a support and a prosthesis endplate, the vertebral prosthesis having a longitudinal axis configured to be aligned along the axis of a spine, wherein the support comprises a first portion slidably received in a second portion and wherein the height of the vertebral prosthesis is adjusted by sliding the first portion relative to the second portion, wherein the prosthesis endplate and the support are adapted to be at least one of threaded, snapped, or twist-locked onto one another;

a locking ring adapted to secure the first portion relative to the second portion;

an artificial spinal disc, comprising:

a disc endplate; and

a disc core coupled to the disc endplate;

wherein the artificial spinal disc is coupled to the prosthesis endplate, the prosthesis endplate having a structure adapted to interlock with the artificial spinal disc, and further wherein the disc core is configured to allow the disc endplate to move relative to the prosthesis endplate whereby the artificial spinal disc acts as a joint to permit a range of motion between the vertebral prosthesis and the spine; and

a pedicle screw retainer coupled to at least one of the prosthesis endplate and the support, the pedicle screw retainer comprising:

a top;

a bottom;

a side wall defined between the top and the bottom; and

at least one aperture defined in the side wall, the aperture having an axis generally perpendicular to the longitudinal axis of the vertebral prosthesis, wherein the aperture

is configured to receive a pedicle screw extending through a pedicle located adjacent to the pedicle screw retainer.

2. (Cancelled)
3. (Previously Presented) The spinal implant system of claim 1, wherein the structure prevents rotation of at least a portion of the disc core relative to the prosthesis endplate.
4. (Cancelled)
5. (Previously Presented) The spinal implant system of claim 1, wherein the structure is at least one of a flange and a recess.
6. (Cancelled)
7. (Previously Presented) A spinal implant system, comprising:
a vertebral prosthesis having a support and a prosthesis endplate, the vertebral prosthesis having a longitudinal axis configured to be aligned along the axis of a spine, wherein the support comprises a first portion slidably received in a second portion and wherein the height of the vertebral prosthesis is adjusted by sliding the first portion relative to the second portion, wherein the prosthesis endplate and the support are adapted to be at least one of threaded, snapped, or twist-locked onto one another;
a locking ring adapted to secure the first portion relative to the second portion; an artificial spinal disc, comprising:
a disc endplate; and
a disc core coupled to the disc endplate;
wherein the artificial spinal disc is coupled to the prosthesis endplate, and further wherein the disc core is configured to allow the disc endplate to move relative to the prosthesis endplate whereby the artificial spinal disc acts as a joint to permit a range of motion between the vertebral prosthesis and the spine; and
a pedicle screw retainer coupled to at least one of the prosthesis endplate and the support, the pedicle screw retainer comprising:

a top;
a bottom;
a side wall defined between the top and the bottom; and
at least one aperture defined in the side wall, the aperture having an axis generally perpendicular to the longitudinal axis of the vertebral prosthesis, wherein the aperture is configured to receive a pedicle screw extending through a pedicle located adjacent to the pedicle screw retainer.

8. (Cancelled)

9. (Previously Presented) The spinal implant system of claim 7, further comprising a second prosthesis endplate coupled to the support, the second prosthesis endplate adapted to be coupled to a second artificial spinal disc.

10. (Withdrawn) The spinal implant system of claim 7, further comprising a second prosthesis endplate coupled to the support, the second prosthesis endplate having teeth adapted to be coupled to a bone.

11. (Previously Presented) A vertebral prosthesis system including a vertebral prosthesis and a spinal disc prosthesis, the vertebral prosthesis comprising:

a shaft having a longitudinal axis configured to be aligned along the axis of a spine, the shaft comprising a first portion slidably received in a second portion and wherein the height of the vertebral prosthesis is adjusted by sliding the first portion relative to the second portion;

a locking ring adapted to secure the first portion relative to the second portion;

a prosthesis endplate coupled to one end of the shaft, the prosthesis endplate adapted to be implanted adjacent the disc prosthesis, thereby obviating the need to fuse the prosthesis endplate to an adjacent vertebra, wherein the prosthesis endplate and the shaft are adapted to be at least one of threaded, snapped, or twist-locked onto one another; and

a pedicle screw retainer coupled to at least one of the shaft and the prosthesis endplate, the pedicle screw retainer comprising:

a top;
a bottom;
a side wall defined between the top and the bottom; and
at least one aperture defined in the side wall, the aperture having an axis generally perpendicular to the longitudinal axis of the shaft, wherein the aperture is configured to receive a pedicle screw extending through a pedicle located adjacent to the pedicle screw retainer;

wherein the disc prosthesis comprises a disc endplate and a disc core coupled to the disc endplate, and further wherein the disc core is configured to allow the disc endplate to move relative to the prosthesis endplate whereby the disc prosthesis acts as a joint to permit a range of motion between the vertebral prosthesis and the spine.

12. (Withdrawn) The vertebral prosthesis system of claim 11, further comprising a second prosthesis endplate coupled to an other end of the shaft, wherein the second prosthesis endplate comprises one or more teeth configured to directly interface with an other adjacent vertebra, thereby allowing fusion of the vertebral prosthesis with the other adjacent vertebra while preserving motion between the vertebral prosthesis and the adjacent vertebra.

13. (Previously Presented) The vertebral prosthesis system of claim 11, further comprising a second prosthesis endplate, wherein the second prosthesis endplate is adapted to be implanted adjacent a second disc prosthesis.

14-17. (Cancelled)

18. (Withdrawn) The vertebral prosthesis system of claim 11, wherein the shaft is at least partially constructed of a mesh.

19-20. (Cancelled)

21. (Previously Presented) A vertebral prosthesis system comprising:
a vertebral prosthesis comprising:
 a shaft having a longitudinal axis configured to be aligned along the axis
of a spine;
 a first prosthesis endplate coupled to a first end of the shaft, the first
prosthesis endplate having a recess, wherein the first prosthesis endplate and the shaft are
adapted to be at least one of threaded, snapped, or twist-locked onto one another;
 a second prosthesis endplate coupled to a second end of the shaft; and
 a pedicle screw retainer coupled to at least one of the shaft, the first
prosthesis endplate, and the second prosthesis endplate, the pedicle screw retainer comprising:
 a top;
 a bottom;
 a side wall defined between the top and the bottom; and
 at least one aperture defined in the side wall, the aperture having
an axis generally perpendicular to the longitudinal axis of the shaft, wherein the aperture is
configured to receive a pedicle screw extending through a pedicle located adjacent to the pedicle
screw retainer;
 an artificial spinal disc, comprising:
 a disc endplate; and
 a disc core coupled to the disc endplate;
 wherein the recess of the first prosthesis endplate is adapted to receive the
artificial spinal disc, wherein the recess prevents rotation of at least a portion of the disc core
relative to the first prosthesis endplate, and further wherein the disc core is configured to allow
the disc endplate to move relative to the first prosthesis endplate whereby the artificial spinal
disc acts as a joint to permit a range of motion between the vertebral prosthesis and the spine;
and
 a pedicle screw received by the at least one aperture of the pedicle screw retainer.

22. (Withdrawn) The vertebral prosthesis system of claim 21, wherein the second prosthesis endplate comprises one or more teeth configured to interface with an adjacent vertebra.

23. (Previously Presented) The vertebral prosthesis system of claim 21, wherein the second prosthesis endplate has a second recess adapted to receive a second artificial spinal disc.

24-26. (Cancelled)

27. (Previously Presented) The vertebral prosthesis system of claim 21, wherein the shaft is adjustable to change the height of the shaft.

28. (Withdrawn) The vertebral prosthesis system of claim 21, wherein the shaft is at least partially constructed of a mesh.

29. (Cancelled)

30. (Currently Amended) The vertebral prosthesis system of claim 23, wherein the second recess prevents rotation of the at least a portion of a disc core of the second artificial spinal disc relative to the second prosthesis endplate.

31-60. (Cancelled)

61. (Previously Presented) A spinal implant system, comprising:
a vertebral prosthesis having a support and a prosthesis endplate, wherein the support comprises a first portion slidably received in a second portion and wherein the height of the vertebral prosthesis is adjusted by sliding the first portion relative to the second portion, the vertebral prosthesis having a longitudinal axis configured to be aligned along the axis of a spine;
a locking ring adapted to secure the first portion relative to the second portion;
a set of interlocking teeth on the first portion and the second portion, the interlocking teeth adapted to engage one another to secure the first portion relative to the second portion;

a pedicle screw adapted to secure the vertebral prosthesis to a pedicle; an artificial spinal disc having a disc endplate and a disc core coupled to the disc endplate, wherein the disc core is coupled to the prosthesis endplate, and further wherein the disc core is configured to allow the disc endplate to move relative to the prosthesis endplate whereby the artificial disc acts as a joint to permit a range of motion between the vertebral prosthesis and the spine; and

a pedicle screw retainer coupled to at least one of the endplate and the support, the pedicle screw retainer comprising:

a top;

a bottom;

a side wall defined between the top and the bottom; and

at least one aperture defined in the side wall, the aperture having an axis generally perpendicular to the longitudinal axis of the vertebral prosthesis, wherein the aperture is configured to receive a pedicle screw extending through a pedicle located adjacent to the pedicle screw retainer.

62. (Cancelled)

63. (Previously Presented) The spinal implant system of claim 61, further comprising a pedicle screw received by the at least one aperture of the pedicle screw retainer.

64-65. (Cancelled)

66. (Withdrawn) The spinal implant system of claim 61, wherein the support is at least partially constructed of a mesh.

67. (Cancelled)

68. (Previously Presented) The spinal implant system of claim 61, wherein the prosthesis endplate has a structure adapted to interlock with the artificial spinal disc.

69. (Previously Presented) The spinal implant system of claim 61, further comprising a second prosthesis endplate coupled to the support, the second prosthesis endplate adapted to be coupled to a second artificial spinal disc.

70. (Withdrawn) The spinal implant system of claim 61, further comprising a second prosthesis endplate coupled to the support, the second prosthesis endplate having teeth adapted to be coupled to a bone.